

**Abstract**

A multilayer polymer film where at least two contiguous layers are bound to each other by the cross-linking of one layer to the other layer. The additives  
5 in two contiguous layers may induce cross-linking between those layers. The polymer film may be a barrier shrink film where a polyethylene layer is bound to a contiguous EVOH layer. The multilayer polymer film is manufactured by providing in each of two contiguous layers cross-  
10 linking additives, and by irradiating the film under conditions suitable to induce cross-linking.